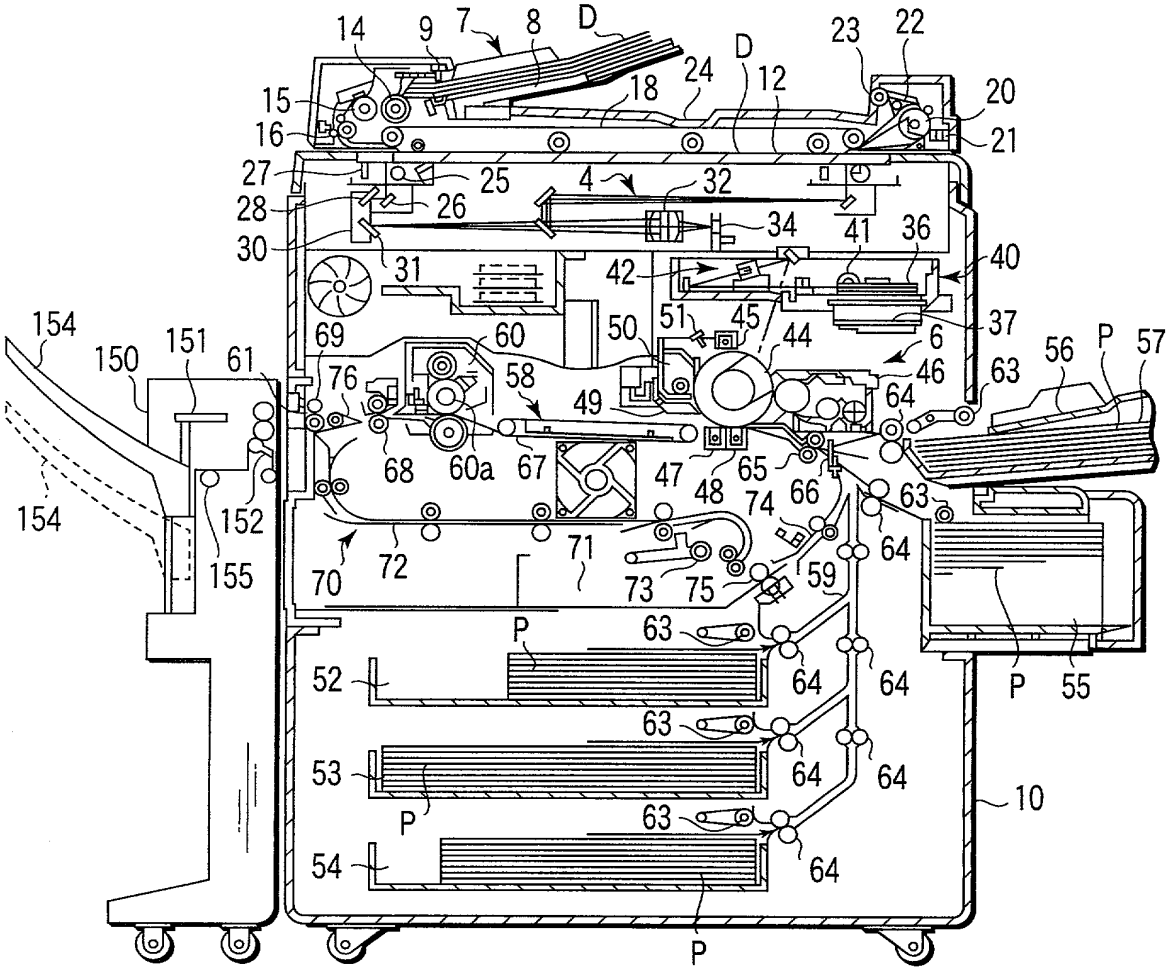
14
9
7
8
D
D
23
22
15
16
18
24
12
20
21
27
25
4
32
28
26
34
41
36
30
31
42
40
154
150
151
61
69
60
50
51
45
44
6
37
56
P
57
76
58
49
46
63
64
68
60a
67
47
48
65
66
74
63
154
152
155
70
72
71
73
75
59
64
P
63
52
64
64
P
55
63
53
64
64
P
63
10
54
64
P

FIG. 1

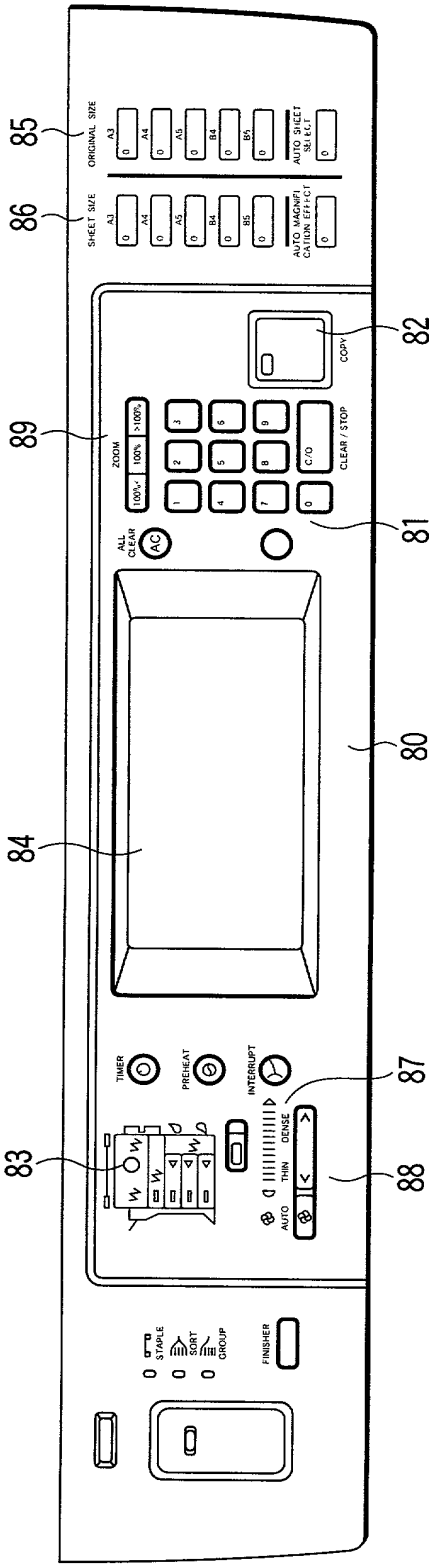
85
86
82
89
81
80
84
87
83
88
ORIGINAL SIZE
SHEET SIZE
AUTO SHEET SELECT
AUTO MAGNIFICATION EFFECT
COPY
ZOOM
CLEAR / STOP
ALL CLEAR
TIMER
PREHEAT
INTERRUPT
THIN
DENSE
AUTO
STAPLE
SORT
GROUP
FINISHER

FIG. 2

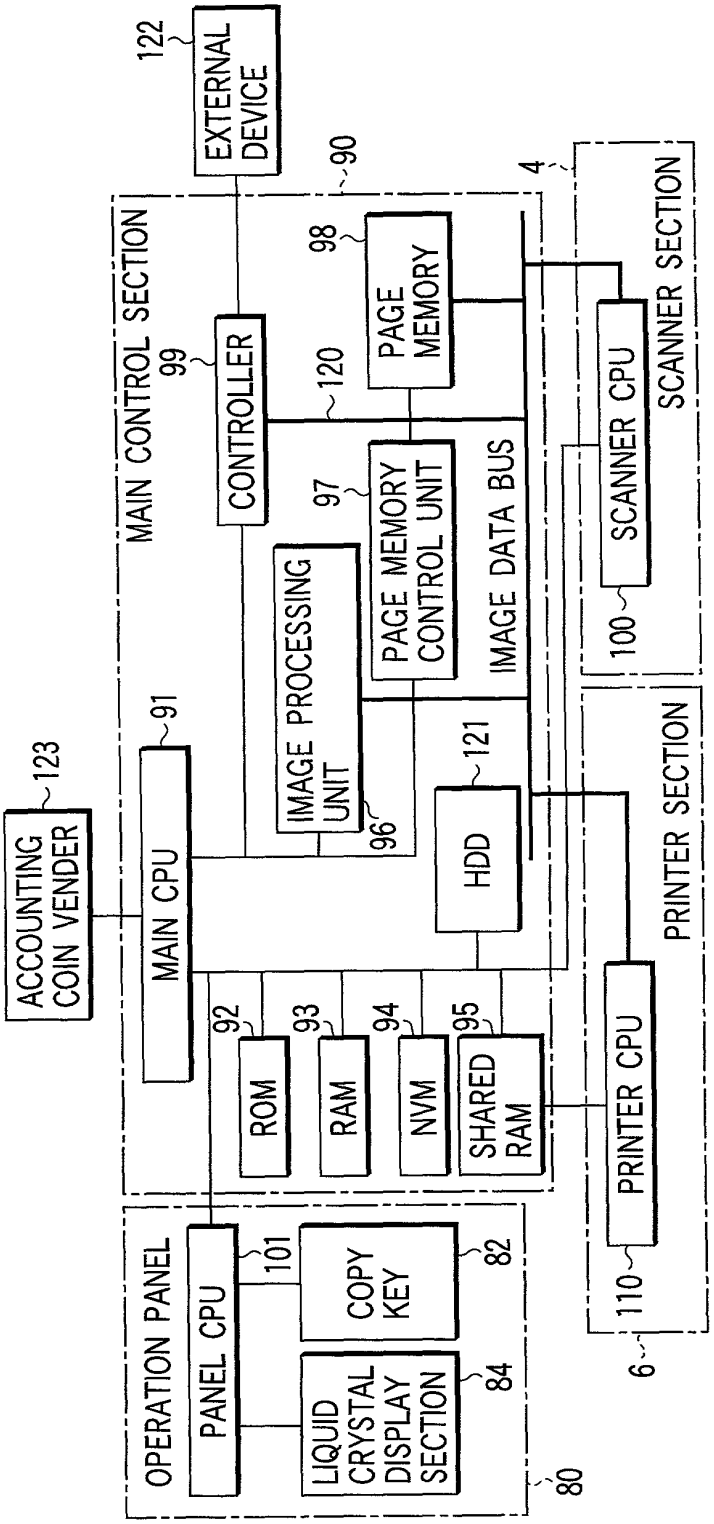
122
EXTERNAL DEVICE
90
4
MAIN CONTROL SECTION
99
CONTROLLER
120
98
PAGE MEMORY
97
PAGE MEMORY CONTROL UNIT
IMAGE DATA BUS
IMAGE PROCESSING UNIT
96
SCANNER CPU
SCANNER SECTION
100
123
ACCOUNTING COIN VENDER
91
MAIN CPU
121
HDD
92
ROM
93
RAM
94
NVM
95
SHARED RAM
PRINTER CPU
PRINTER SECTION
110
6
OPERATION PANEL
PANEL CPU
101
COPY KEY
82
LIQUID CRYSTAL DISPLAY SECTION
84
80

FIG. 3

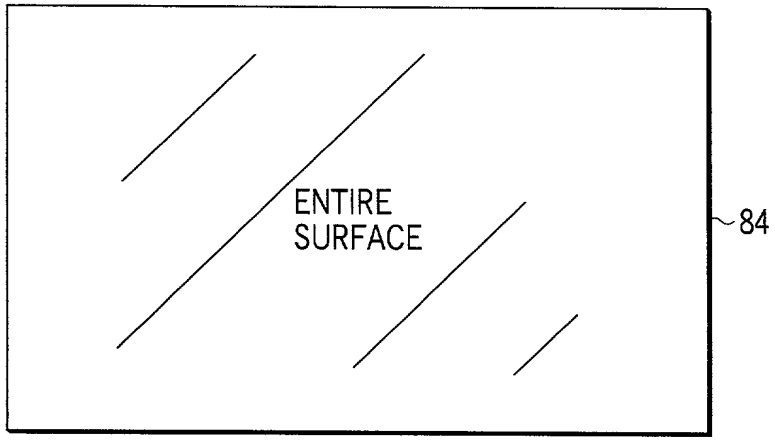

FIG. 4

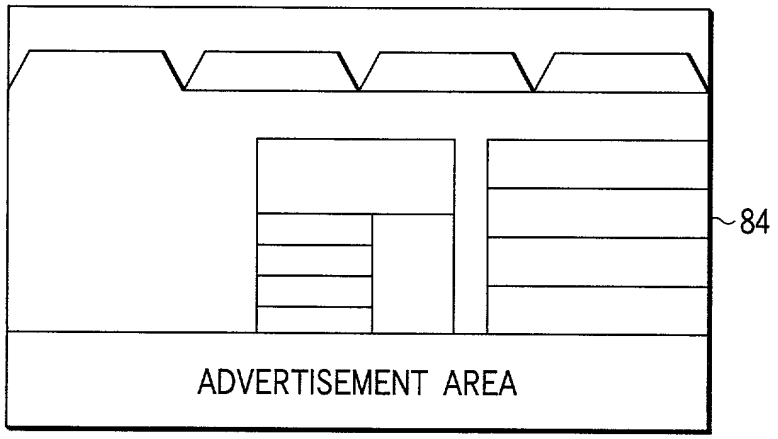

FIG. 5

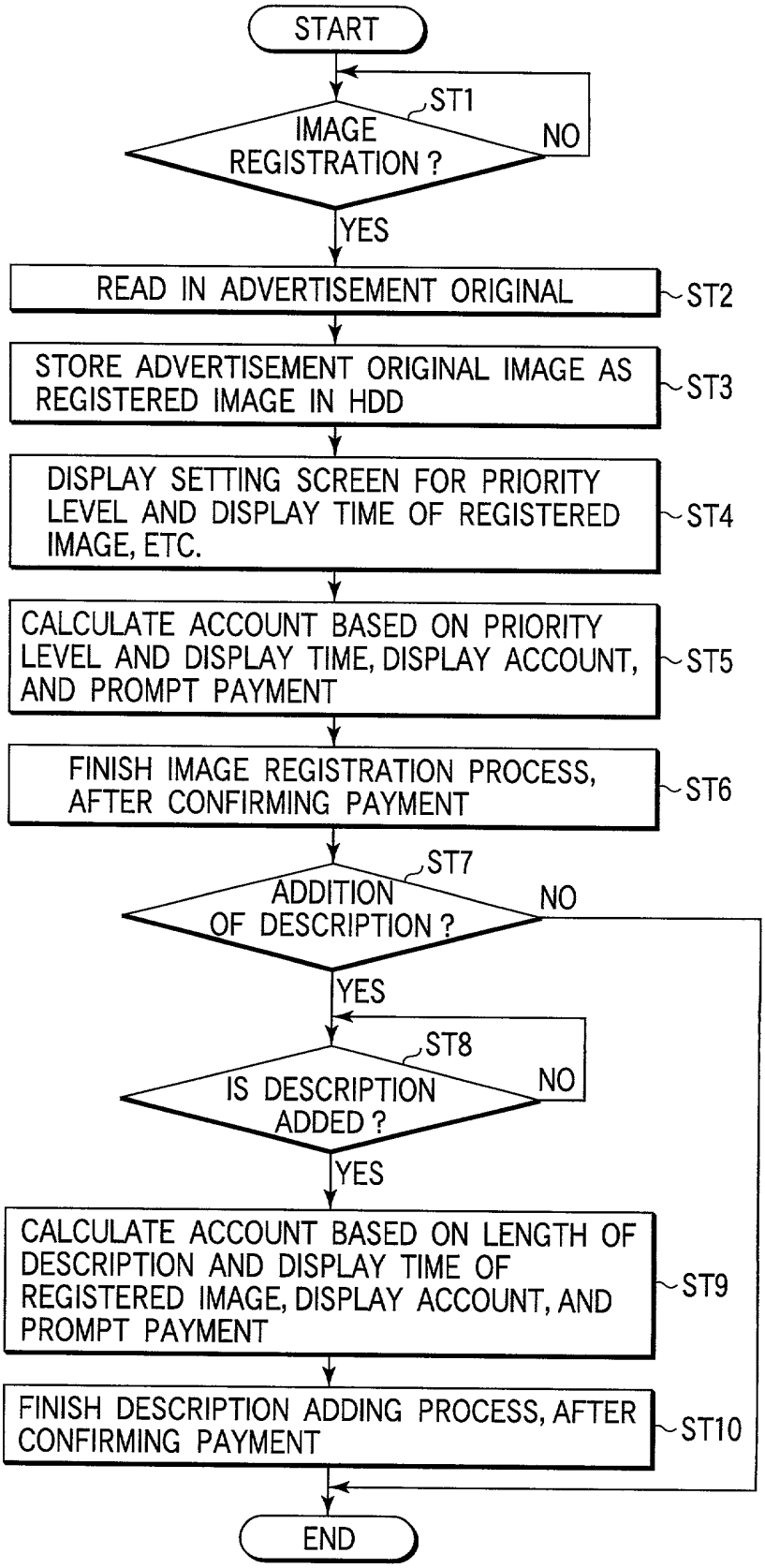
START
ST1
IMAGE REGISTRATION ?
NO
YES
READ IN ADVERTISEMENT ORIGINAL
ST2
STORE ADVERTISEMENT ORIGINAL IMAGE AS REGISTERED IMAGE IN HDD
ST3
DISPLAY SETTING SCREEN FOR PRIORITY LEVEL AND DISPLAY TIME OF REGISTERED IMAGE, ETC.
ST4
CALCULATE ACCOUNT BASED ON PRIORITY LEVEL AND DISPLAY TIME, DISPLAY ACCOUNT, AND PROMPT PAYMENT
ST5
FINISH IMAGE REGISTRATION PROCESS, AFTER CONFIRMING PAYMENT
ST6
ST7
ADDITION OF DESCRIPTION ?
NO
YES
ST8
IS DESCRIPTION ADDED ?
NO
YES
CALCULATE ACCOUNT BASED ON LENGTH OF DESCRIPTION AND DISPLAY TIME OF REGISTERED IMAGE, DISPLAY ACCOUNT, AND PROMPT PAYMENT
ST9
FINISH DESCRIPTION ADDING PROCESS, AFTER CONFIRMING PAYMENT
ST10
END

FIG. 6

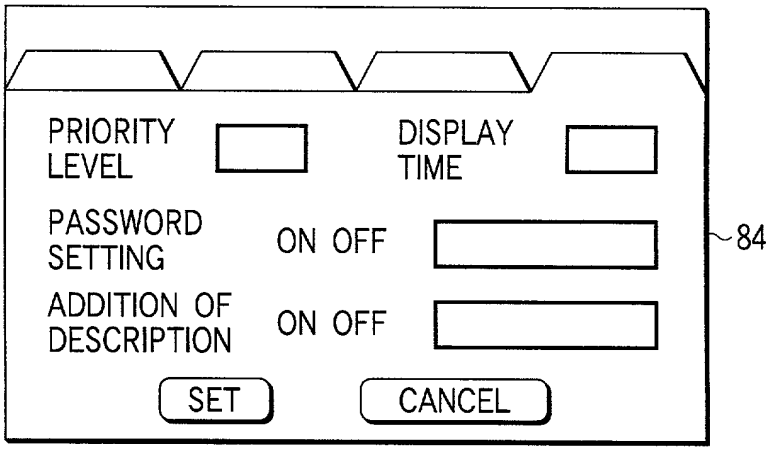

FIG. 7

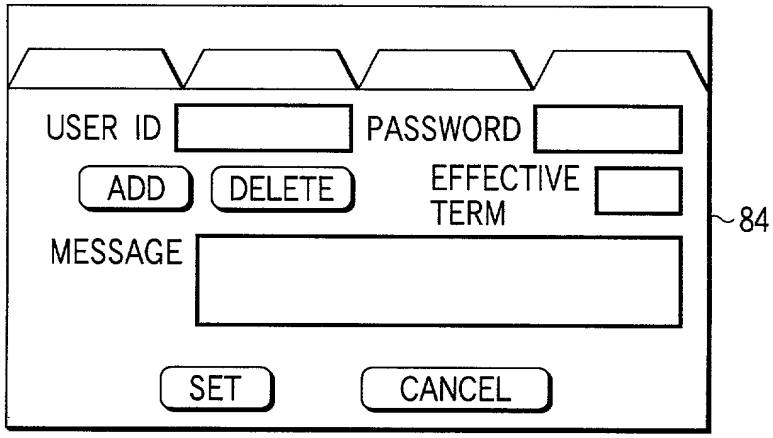

FIG. 10

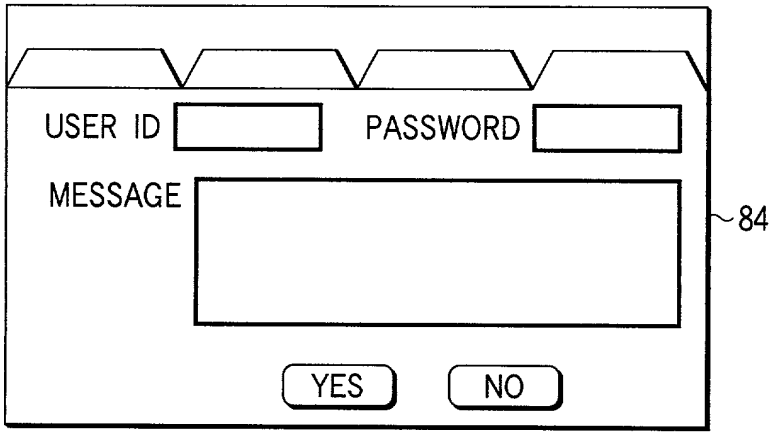

FIG. 12

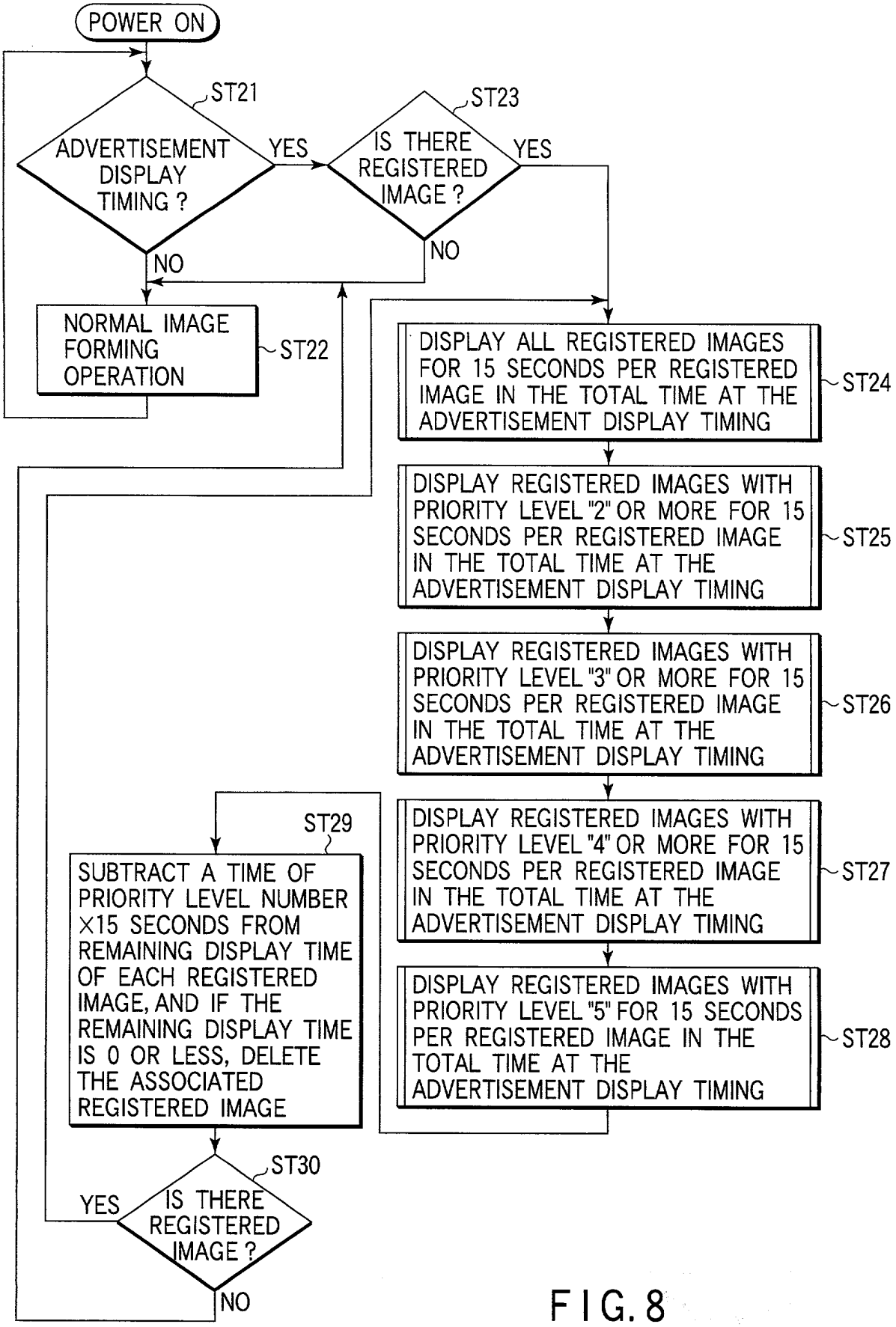
POWER ON
ST21
ADVERTISEMENT DISPLAY TIMING ?
YES
NO
ST23
IS THERE REGISTERED IMAGE ?
YES
NO
NORMAL IMAGE FORMING OPERATION
ST22
DISPLAY ALL REGISTERED IMAGES FOR 15 SECONDS PER REGISTERED IMAGE IN THE TOTAL TIME AT THE ADVERTISEMENT DISPLAY TIMING
ST24
DISPLAY REGISTERED IMAGES WITH PRIORITY LEVEL "2" OR MORE FOR 15 SECONDS PER REGISTERED IMAGE IN THE TOTAL TIME AT THE ADVERTISEMENT DISPLAY TIMING
ST25
DISPLAY REGISTERED IMAGES WITH PRIORITY LEVEL "3" OR MORE FOR 15 SECONDS PER REGISTERED IMAGE IN THE TOTAL TIME AT THE ADVERTISEMENT DISPLAY TIMING
ST26
DISPLAY REGISTERED IMAGES WITH PRIORITY LEVEL "4" OR MORE FOR 15 SECONDS PER REGISTERED IMAGE IN THE TOTAL TIME AT THE ADVERTISEMENT DISPLAY TIMING
ST27
DISPLAY REGISTERED IMAGES WITH PRIORITY LEVEL "5" FOR 15 SECONDS PER REGISTERED IMAGE IN THE TOTAL TIME AT THE ADVERTISEMENT DISPLAY TIMING
ST28
ST29
SUBTRACT A TIME OF PRIORITY LEVEL NUMBER X15 SECONDS FROM REMAINING DISPLAY TIME OF EACH REGISTERED IMAGE, AND IF THE REMAINING DISPLAY TIME IS 0 OR LESS, DELETE THE ASSOCIATED REGISTERED IMAGE
ST30
IS THERE REGISTERED IMAGE ?
YES
NO

FIG. 8

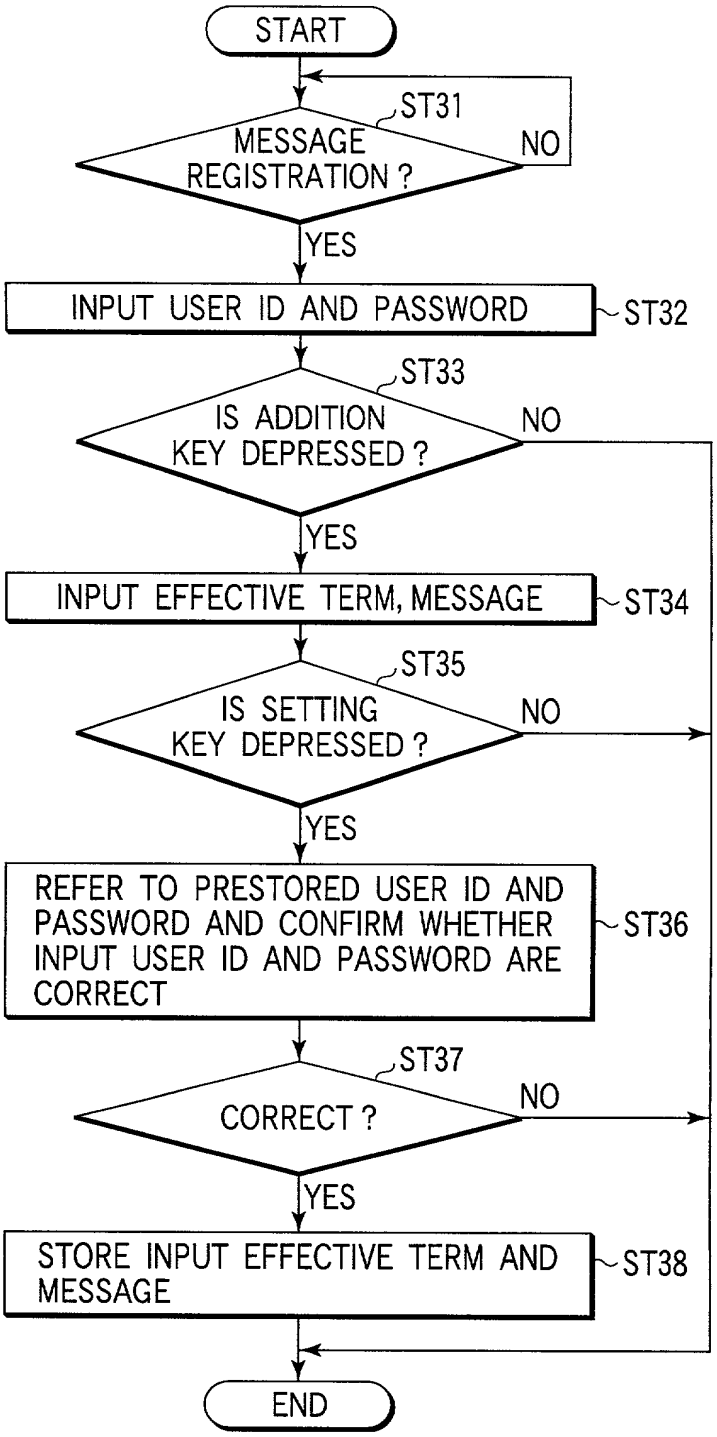
START
ST31
MESSAGE REGISTRATION ?
NO
YES
INPUT USER ID AND PASSWORD
ST32
ST33
IS ADDITION KEY DEPRESSED ?
NO
YES
INPUT EFFECTIVE TERM, MESSAGE
ST34
ST35
IS SETTING KEY DEPRESSED ?
NO
YES
REFER TO PRESTORED USER ID AND PASSWORD AND CONFIRM WHETHER INPUT USER ID AND PASSWORD ARE CORRECT
ST36
ST37
CORRECT ?
NO
YES
STORE INPUT EFFECTIVE TERM AND MESSAGE
ST38
END

FIG. 9

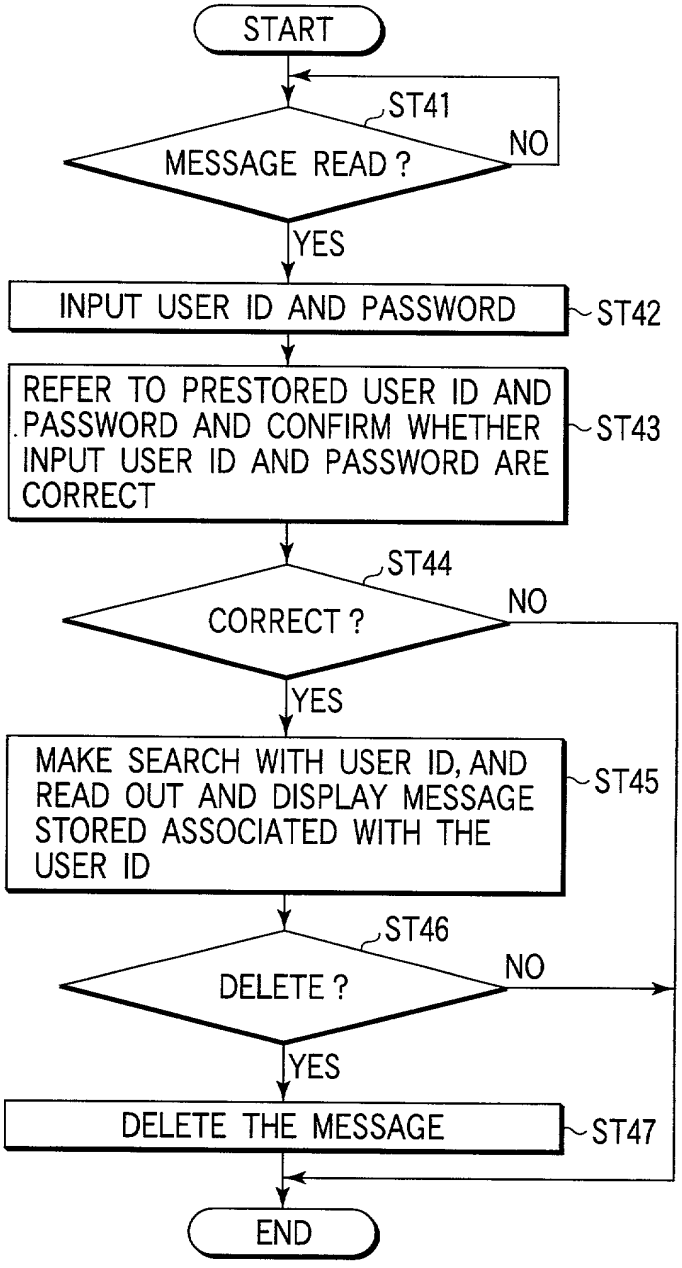
START
ST41
MESSAGE READ ?
NO
YES
INPUT USER ID AND PASSWORD
ST42
REFER TO PRESTORED USER ID AND PASSWORD AND CONFIRM WHETHER INPUT USER ID AND PASSWORD ARE CORRECT
ST43
ST44
CORRECT ?
NO
YES
MAKE SEARCH WITH USER ID, AND READ OUT AND DISPLAY MESSAGE STORED ASSOCIATED WITH THE USER ID
ST45
ST46
DELETE ?
NO
YES
DELETE THE MESSAGE
ST47
END

FIG. 11